



# HP ProLiant servers offer what Dell PowerEdge servers don't.

Information in this document is obtained from [www.dell.com](http://www.dell.com) and is updated quarterly. Information is accurate as of October 15, 2005.

## HP ProLiant Management vs. Dell PowerEdge Management

HP ProLiant Essentials Rapid Deployment Pack provides out-of-the box, unattended OS deployment scripts for Microsoft® Windows® and Linux® that include post-OS deployment of drivers, firmware and management agents. Deployment Solution for Dell servers requires end users to import BIOS, plug-and-play drivers and OS setup files for each target server type to enable unattended server deployments. Dell's update packages and management solutions must be downloaded outside of the deployment solution installation process.

HP Systems Insight Manager and the ProLiant Essentials Performance Management Pack detect and suggest resolution for performance bottlenecks and suboptimal server configurations. Dell OpenManage IT Assistant displays some utilization statistics, but does not identify or recommend solutions for server performance bottleneck conditions.

## HP Care Pack

HP Care Pack hardware support services provide speedy access to HP technical specialists for problem identification and resolution for ProLiant servers, helping to increase equipment availability and productivity with quality remote and onsite support. This flexible service option enables a choice from a range of response times, coverage windows and service periods that meet customers' specific requirements. For 13x5x4 hour and 24x7x4 hour cover, HP provides response for onsite support within 4 hours of your call being logged.

HP Systems Insight Manager and the ProLiant Essentials Vulnerability and Patch Management Pack consolidate Windows and Red Hat OS and application security vulnerability scanning and patching into a single offering. Dell OpenManage IT Assistant provides no security vulnerability

Information regarding Dell PowerEdge servers was obtained from HP and Dell specifications published at [www.hp.com](http://www.hp.com) and [www.dell.com](http://www.dell.com) and is accurate as of October 15, 2005. This document is updated quarterly and is intended for distribution in the United States. Product comparisons are based on feature sets. Not all Dell PowerEdge products are represented in this poster. When referring to hard drive capacity, 1 GB = 1 billion bytes; actual formatted capacity is less. This comparison is based on published specifications for the featured products.

Warranties: Certain restrictions and exclusions apply. Certain options are covered by a 1-year limited warranty. Consult the HP Product Information Center at 1-800-345-1518 for details.

Pre-Failure Warranties: Available on most HP ProLiant server processors, memory, and SCSI hard drives. Certain restrictions and exclusions apply.

Consult the HP Product Information Center at 1-800-345-1518 for details.

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## HP ProLiant ML110 G3 server vs. Dell PowerEdge SC430

- The ML110 G3 server has both a tower and a rack-mountable option. The PowerEdge SC430 is limited to tower only.
- The ML110 G3 server has up to 8 GB memory. The PowerEdge SC430 has a limit of 4 GB memory.
- The ML110 G3 server offers 3 hard disk drives. The PowerEdge SC430 offers 2.

## HP ProLiant ML150 G2 server vs. Dell PowerEdge SC1420

- The ML150 G2 server supports up to 6 hot plug/non-hot plug SCSI drives or 4 hot plug SATA drives. The PowerEdge SC1420 supports only up to 4 non-hot plug SCSI or SATA drives.
- The ML150 G2 server provides optional Lights-Out 100 remote management. The PowerEdge SC1420 does not offer a remote management option.

## HP ProLiant ML310 G2 server vs. Dell PowerEdge 830

- The ML310 G2 offers support for all current drive types: hot plug or non-hot plug SATA and Ultra320 SCSI hard drives as well as hot plug Serial SCSI (SAS) hard drives. The PowerEdge 830 supports only non-hot plug SATA and hot plug or "EasyExchange" SCSI hard drives.
- The ML310 G2 SCSI models include an Ultra320 Controller. The PowerEdge 830 includes an older technology with its optional Ultra160 Controller.
- The ML310 G2 provides a Rack Option Kit. The PowerEdge 830 has only third-party rack support.

## HP ProLiant ML350 G4 and ProLiant ML350 G4p servers vs. Dell PowerEdge 1800

- The ML350 G4 and ML350 G4p servers have a redundant fan option. The PowerEdge 1800 does not.
- The ML350 G4 and ML350 G4p servers have models with RAID support standard. The PowerEdge 1800 does not have RAID support standard.

## HP ProLiant ML370 G4 server vs. Dell PowerEdge 2800

- The ML370 G4 server has integrated remote management support standard with iLO. The PowerEdge 2800 has basic remote management compliant with IPMI 1.5 standards with an optional DRAC 4/1 remote PCI card.
- The ML370 G4 server has a model with RAID support standard. The PowerEdge 2800 does not have RAID support standard.

## HP ProLiant ML570 G3 server vs. Dell PowerEdge 6800

- The ML570 G3 provides an Ultra320 SCSI drive cage standard with a SAS Drive Cage Upgrade Kit and a SAS drive cage standard with its SAS model. The PowerEdge 6800 does not ship with SAS drives.
- The ML570 G3 server has 10 PCI expansion slots, including 4 PCI Express, and 2 hot plug PCI-X, giving customers the most expandable PCI slots available. The PowerEdge 6800 has only 7 expansion slots, none of which are hot plug.

## HP ProLiant DL140 G2 server vs. Dell PowerEdge SC1425

- The DL140 G2 is a 1U server providing up to 16 GB of DDR2 memory and 2 PCI-X slots with optional PCI Express. The PowerEdge SC1425 has only 12 GB of DDR2 memory and only 1 PCI-X slot.

## HP ProLiant DL145 G2 server vs. Dell PowerEdge SC1425 and PowerEdge 1850

- The DL145 G2 server is an AMD® Opteron™ single-core or dual-core server providing 2 PCI-X slots with optional PCI Express. The PowerEdge SC1425 has only 1 PCI-X slot.
- The DL145 G2 server provides IPMI 2.0 Lights-Out 100i remote management. The PowerEdge 1850 has remote management compliant with IPMI 1.5 standards and an optional slot-free DRAC 4/1 card.
- The DL145 G2 server offers 1x16 lane PCI Express support. The PowerEdge 1850 provides only 1x4 and 1x8 PCI Express slots.

## HP ProLiant DL320 G3 server vs. Dell PowerEdge 850

- The DL320 G3 offers a USB port on the front of the server or the ability to insert a USB key on the connector internally for deployment, data security or management. The PowerEdge 850 does not offer either of these features.
- The DL320 G3 server provides iLO remote management standard. The PowerEdge 850 only offers its standard BMC with IPMI 1.5 support and an optional DRAC 4/p card.

## HP ProLiant DL585 server vs. Dell PowerEdge 6850

- The DL585 server provides up to 128 GB of PC2700 running at 266MHz, 48 GB of PC2700 running at 333MHz, or 32 GB of PC3200 running at 400MHz RAM for enhanced performance. The PowerEdge 6850 has a maximum of 32 GB RAM (or 64 GB with availability of 4 GB DIMMs).

- The DL585 server has integrated remote management support standard with iLO management. The PowerEdge 6850 has basic remote management with an optional DRAC 4/p remote PCI card.

- The DL585 server allows deployment in both 220v and 110v environments. The PowerEdge 6850's power supply runs at 220v-240v only.

- Dell does not offer a comparable 4-processor Opteron server. The PowerEdge 6850 is an Intel Xeon processor.<sup>†</sup>

## HP ProLiant DL740 server

- The DL740 server supports up to 8 Intel Xeon MP processors in an ultra-dense 4U form factor.
- The DL740 server has advanced memory features such as hot plug RAID memory with hot add and hot upgrade support.
- Dell does not offer a comparable 8-processor system.<sup>†</sup>

## HP ProLiant DL360 G4 and DL360 G4p servers vs. Dell PowerEdge 1850

- The DL360 G4 and DL360 G4p servers at 27.3/4" deep offer much better accessibility in the rack. The PowerEdge 1850 is 29" deep.
- The DL360 G4 and DL360 G4p servers offer a 2-drive SCSI model and a 2-drive SATA model. The PowerEdge 1850 does not offer SATA models.
- The DL360 G4 and DL360 G4p servers have robust remote management with iLO standard. The PowerEdge 1850 has basic remote management with an optional DRAC 4/1 remote PCI card.
- The DL360 G4 and DL360 G4p servers have a Smart Array Controller for standard RAID support. PowerEdge 1850 customers must pay extra for RAID support.
- The DL360 G4 and DL360 G4p servers allows customers to choose PCI-X slots, PCI Express slots or a combination of each. The PowerEdge 1850 forces customers to choose between all PCI-X or all PCI Express slots.

## HP ProLiant DL380 G4 server vs. Dell PowerEdge 2850

- The DL380 G4 server offers support for 8 SFF hot plug SAS or SATA hard drives for ultimate flexibility and improved efficiency. The PowerEdge 2850 does not ship with SAS drives.
- The DL380 G4 server has an Ultra320 Smart Array 6i Controller for standard RAID support. PowerEdge 2850 customers must pay extra for RAID support.

## HP ProLiant DL385 server vs. Dell PowerEdge 2850

- The DL385 server has an Ultra320 Smart Array 6i Controller or a Smart Array P600 Controller for SAS drives for standard RAID support. PowerEdge 2850 customers must pay extra for RAID support.
- The DL385 server provides up to 16 GB of 2-way interleaved PC3200 DDR SDRAM or 32 GB using PC2700 DDR SDRAM for better performance.
- The PowerEdge 2850 only provides up to 12 GB of RAM.

## HP ProLiant DL560 server

- The DL560 server packs the power of 4 Intel® Xeon™ MP processors into a rack-customized 2U form factor.
- The DL560 server features an integrated Smart Array 5i Plus Array Controller with RAID support standard.
- Dell does not offer a comparable 4-processor system in a 2U chassis.<sup>†</sup>

## HP ProLiant DL580 G3 server vs. Dell PowerEdge 6850

- The DL580 G3 server features 4 hot plug Ultra320 drive bays or 8 hot plug SAS drive bays standard. The PowerEdge 6850 has 5 hot plug Ultra320 drive bays standard.
- The DL580 G3 server supports hot plug mirrored memory. The PowerEdge 6850 has memory mirroring capability, but it is not hot plug capable.
- The DL580 G3 offers flexibility with support for both 110v and 220v power. The PowerEdge 6850 supports only 220v-240v power.

## HP ProLiant DL585 server vs. Dell PowerEdge 6850

- The DL585 server provides up to 128 GB of PC2700 running at 266MHz, 48 GB of PC2700 running at 333MHz, or 32 GB of PC3200 running at 400MHz RAM for enhanced performance. The PowerEdge 6850 has a maximum of 32 GB RAM (or 64 GB with availability of 4 GB DIMMs).
- The DL585 server has integrated remote management support standard with iLO management. The PowerEdge 6850 has basic remote management with an optional DRAC 4/p remote PCI card.
- The DL585 server allows deployment in both 220v and 110v environments. The PowerEdge 6850's power supply runs at 220v-240v only.

- Dell does not offer a comparable 4-processor Opteron server. The PowerEdge 6850 is an Intel Xeon processor.<sup>†</sup>

## HP ProLiant BL20p G3 server blade vs. Dell PowerEdge 1855

- The BL20p G3 server blade has remote management with iLO Advanced standard allowing access to multiple blades simultaneously. The PowerEdge 1855 has Baseboard Management Controller with IPMI 1.5 compliance, accessible via network or serial port and a chassis management module, which allows for a single connection to a single blade at one time.
- The BL20p G3 server blade has an integrated Smart Array 6i Plus Controller with an available BBWC option. The PowerEdge 1855 does not have an available BBWC option.

## HP ProLiant BL25p server blade

- Each BL25p server blade has 8 memory slots and supports up to 16 GB of PC3200 DDR SDRAM or 32 GB of PC2700 DDR SDRAM memory.
- The BL25p server blade is designed for 2P blade performance for front-end and mid-tier computing. Each server blade includes up to 2, 2.4 GHz AMD Opteron dual-core processors or 2, 2.8 GHz AMD Opteron single-core processors, 2 optional, universal hot-plug SCSI hard drives for up to 600 GB capacity, plus an embedded Smart Array 6i Plus Controller with Ultra320 performance.
- Dell does not offer a server blade with AMD Opteron processors.<sup>†</sup>

## HP ProLiant BL35p server blade

- The BL35p server blade has an ultra-dense footprint and lower power consumption, which enables denser rack architectures. The BL35p offers up to 2 single-core (2.4GHz) or up to 2 dual-core AMD Opteron 200 Series processors (2.2 GHz – 1 MB L2 / 68W CPU power specification), 8 GB of 400 MHz, ECC PC3200 DDR or 16 GB of 333 MHz, ECC PC2700 DDR memory. The BL35p server blade offers flexibility in server deployment with SAS or ATA models with 16 server blades per enclosure and 96 per 42U rack.
- Dell does not offer a server blade with AMD Opteron processors.<sup>†</sup>

## HP ProLiant BL45p server blade

- The BL45p server blade is designed for enterprise availability and mission-critical applications with the scalability to run existing 32-bit applications, while also providing a simplified migration path to 64-bit computing.
- The BL45p server blade provides increased density – four BL45p server blades per 6U server blade enclosure.
- The BL45p server blade supports up to four dual-core AMD Opteron 800 series processors, 16 DIMM slots with a maximum capacity of 32 GB of PC3200 memory or 64 GB of PC2700 memory, an integrated Smart Array 6i Plus Controller with an available BBWC option, and optional 2 universal hot plug SCSI drives.
- Dell does not have a 4-processor server blade at this time.<sup>†</sup>

<sup>\*</sup> 1U = 1.75"

<sup>†</sup> Based on comparable product features.



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